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### 1 [On face detection in the compressed domain](#)



Huitao Luo, Alexandros Eleftheriadis

 October 2000 **Proceedings of the eighth ACM international conference on Multimedia**  
**MULTIMEDIA '00**

Publisher: ACM Press

Full text available: [pdf\(948.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

*We propose a fast face detection algorithm that works directly on the compressed DCT domain. Unlike the previous DCT domain processing designs that are mainly based on skin-color detection, our algorithm analyzes both color and texture information contained in the DCT parameters, therefore could generate more reliable detection results. Our texture analysis is mainly based on statistical model training and detection. A number of fundamental problems, e.g., block quantization, prepro ...*

**Keywords:** DCT, JPEG, MPEG, face detection

### 2 [Projection detecting filter for video cut detection](#)



Kiyotaka Otsuji, Yoshinobu Tonomura

 September 1993 **Proceedings of the first ACM international conference on Multimedia**  
**MULTIMEDIA '93**

Publisher: ACM Press

Full text available: [pdf\(83.01 KB\)](#)
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### 3 [Three-dimensional medical imaging: algorithms and computer systems](#)



M. R. Stytz, G. Frieder, O. Frieder

 December 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 4

Publisher: ACM Press

Full text available: [pdf\(7.38 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)
**Keywords:** Computer graphics, medical imaging, surface rendering, three-dimensional

imaging, volume rendering

#### 4 Effectively Visualizing Multi-Valued Flow Data using Color and Texture

Timothy Urness, Victoria Interrante, Ivan Marusic, Ellen Longmire, Bharathram Ganapathisubramani

October 2003 **Proceedings of the 14th IEEE Visualization 2003 (VIS'03) VIS '03**

**Publisher:** IEEE Computer Society

Full text available:  [pdf\(754.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#)

In this paper we offer several new insights and techniques for effectively using color and texture to simultaneously convey information about multiple 2D scalar and vector distributions, in a way that facilitates allowing each distribution to be understood both individually and in the context of one or more of the other distributions. Specifically, we introduce the concepts of: - 'color weaving' for simultaneously representing information about multiple co-located color encoded distributions, and ...

**Keywords:** flow visualization, line integral convolution, multi-variate data visualization, color, texture

#### 5 An integrated color-spatial approach to content-based image retrieval

 Wynne Hsu, S. T. Chua, H. H. Pung

January 1995 **Proceedings of the third ACM international conference on Multimedia MULTIMEDIA '95**

**Publisher:** ACM Press

Full text available:  [htm\(38.02 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


**Keywords:** color retrieval, content-based retrieval, image segmentation, spatial retrieval

#### 6 Session C3: physical science and engineering: Visualizing 2D probability distributions from EOS satellite image-derived data sets: a case study

David Kao, Jennifer L. Dungan, Alex Pang

October 2001 **Proceedings of the conference on Visualization '01 VIS '01**


**Publisher:** IEEE Computer Society

Full text available:  [pdf\(826.59 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
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Maps of biophysical and geophysical variables using Earth Observing System (EOS) satellite image data are an important component of Earth science. These maps have a single value derived at every grid cell and standard techniques are used to visualize them. Current tools fall short, however, when it is necessary to describe a *distribution* of values at each grid cell. Distributions may represent a frequency of occurrence over time, frequency of occurrence from multiple runs of an ensemble f ...

**Keywords:** conditional simulation, data assimilation, geostatistics, probability density function, uncertainty

#### 7 A survey on wavelet applications in data mining

 Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara

December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(330.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewed. The paper concludes by discussing the impact of wavelets on data mining research an ...

## 8 Multimodal people ID for a multimedia meeting browser



Jie Yang, Xiaojin Zhu, Ralph Gross, John Kominek, Yue Pan, Alex Waibel

October 1999 **Proceedings of the seventh ACM international conference on Multimedia (Part 1) MULTIMEDIA '99**

Publisher: ACM Press

Full text available:  pdf(1.73 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A meeting browser is a system that allows users to review a multimedia meeting record from a variety of indexing methods. Identification of meeting participants is essential for creating such a multimedia meeting record. Moreover, knowing who is speaking can enhance the performance of speech recognition and indexing meeting transcription. In this paper, we present an approach that identifies meeting participants by fusing multimodal inputs. We use face ID, speaker ID, color appearance ID, a ...

**Keywords:** data fusion, meeting browser, multimedia, multimodal, people identification


## 9 Face recognition: A literature survey



W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Publisher: ACM Press

Full text available:  pdf(4.28 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

**Keywords:** Face recognition, person identification


## 10 Content analysis: Supporting timeliness and accuracy in distributed real-time content-based video analysis



Viktor S. Wold Eide, Frank Eliassen, Ole-Christoffer Granmo, Olav Lysne

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia MULTIMEDIA '03**

Publisher: ACM Press

Full text available:  pdf(339.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Real-time content-based access to live video data requires content analysis applications that are able to process the video data at least as fast as the video data is made available to the application and with an acceptable error rate. Statements as this express quality of service (QoS) requirements to the application. In order to provide some level of control of the QoS provided, the video content analysis application must be scalable and resource



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